

# Laurier Mantel

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## SKILLS

### SOFTWARE

Chef • Ruby on Rails • node.js  
Python • Java • C# • Coffeescript  
HTML/CSS • shell scripting

### DATA

SQL(MySQL, Postgresql,  
SQL Server) • Apache Kafka  
Confluent Platform • D3.js  
NoSQL(MongoDB, redis)  
Tableau • Amazon Redshift  
Hadoop • Apache Spark

## EDUCATION

### UNIVERSITY OF WATERLOO

#### BASc. SYSTEMS DESIGN

#### ENGINEERING

Expected April 2019 | GPA: 3.40

## COURSEWORK

### UNDERGRADUATE

- Human Factors Design
- Programming in C++
- Data Structures and Algorithms
- Hardware Design
- Circuits, Instrumentation, and Measurements
- Engineering Economics
- Marketing Economics

### COMPETITIONS

- Ontario Engineering Competition Participant | Jan 2016 | Waterloo
- World Mining Competition Top 10 Finish | Nov 2015 | Saskatoon
- Hack the North Participant | Sept 2015 | Waterloo
- Waterloo Engineering Competition Winner | July 2015 | Waterloo • UW Apprentice: Startup Consulting Participant | Nov 2014 | Waterloo

## ABOUT

### INTERESTS

- Grade 8 RCM Classical Guitarist
- Full stack foosball player
- Sports: basketball, volleyball, soccer, dodgeball
- Cooking

## EXPERIENCE

### DATA ENGINEERING INTERN | SHOPIFY INC.

May 2016 – Aug 2016 | Toronto, ON

- Integrated Kafka Connect to stream kafka events to HDFS using Chef, scripts communicating with Zookeeper and Kafka, replacing legacy technology *Camus*
- Developed data visualization tool for conversion rates using D3.js, Lita chatbot library and Amazon Redshift to make conversion rate data accessible in Slack
- Supported product managers and analysts with product analytics by designing sales funnel flows, instrumenting features, constructing queries, and debugging Spark jobs using Apache Oozie
- Evaluated and investigated paid data solutions on behalf of team, including analytics products such as Amplitude and monitoring solutions such as Confluent Control Center

### FULL STACK DEVELOPER | SHOPIFY INC.

Sept 2015 – Dec 2015 | Ottawa, ON

- Developed and released *Inventory Transfers* feature, allowing 200,000 merchants to manage incoming inventory in a streamlined manner using Ruby on Rails, javascript, coffeescript, MySQL.
- Implemented maintenance tasks to maintain consistent database records.
- Leveraged open source projects such as Large Hadron Migrator to run online database migrations
- Instrumented product to analyze user activity using Google Analytics, Splunk and Kafka events
- Worked in an agile, test-driven-development environment and continuously deployed code to one of the largest Ruby on Rails applications in the world (Shopify)

### SYSTEMS DESIGNER | GRANTEK SYSTEMS INTEGRATION INC.

Jan 2015 – April 2015 | Montreal, QC

- Developed ASP.NET model-view-controller web app for a client using C#, SQL Server, Entity Framework
- Designed user interfaces for industrial manufacturing systems for several clients using Siemens WinCC technology

### CAMPUS REPRESENTATIVE | COMMUNITech

April 2015 – May 2016 | Waterloo, ON

- Communitech is a technology accelerator organization in the Waterloo region
- Promoted Communitech to increase brand recognition on campus and tech companies in the Waterloo region
- Presented opportunities for companies to hire top talent from the university, resulting in several new hires

## PROJECTS

### SAVEME

Winter 2016 – present | Independent project | Waterloo, ON

Ongoing project with the goal of leveraging advances in the capabilities of mobile technology to drastically improve emergency response. Built an application using node.js, MongoDB, twilio and Heroku

### RECEIPTSHEEP

Fall 2015 | Hack the North | Waterloo, ON

Built a cloud based ExpressJS application to optimize the expense approval process for finance departments. The application integrated with state of the art accounting systems such as Quickbooks. Deployed the application to the Linode cloud.